

L Number	Hits	Search Text	DB	Time stamp
-	2042	((wiring near board)(printed adj circuit adj board) pcb tape) with (window opening)with (center central)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 14:08
-	7	((wiring near board)(printed adj circuit adj board) pcb tape) with (window opening)with (center central)) and (cob (chip near1 board))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 08:20
-	986	361/785	USPAT; US-PGPUB; EPO; JPO	2001/07/17 08:21
-	295	361/785 and plug	USPAT; US-PGPUB; EPO; JPO	2001/07/17 08:21
-	114	(361/785 and plug) and (chip IC (semiconductor near (package device element)))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 08:23
-	0	361/785 and (plade near4 tab)	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:02
-	0	361/785 and (blade near4 tab)	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:07
-	49	361/785 and blade	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:07
-	1817	(pga (pin near grid near array)) and pad	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:25
-	590	(pga (pin near grid near array)) and ((bond bonding) near pad)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 14:53
-	493	((pga (pin near grid near array)) and ((bond bonding) near pad)) and (pcb substrate)	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:38
-	491	((pga (pin near grid near array)) and ((bond bonding) near pad)) and (pcb substrate)) not ((361/785 and plug) and (chip IC (semiconductor near (package device element))))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:33
-	405	((pga (pin near grid near array)) and ((bond bonding) near pad)) and (pcb substrate)) not ((361/785 and plug) and (chip IC (semiconductor near (package device element)))) and (blade lead)	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:35
-	273	((pga (pin near grid near array)) and ((bond bonding) near pad)) and (pcb substrate)) not ((361/785 and plug) and (chip IC (semiconductor near (package device element)))) and (blade lead)) and (semiconductor near1 (device package))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:55
-	3	((pga (pin near grid near array)) and ((bond bonding) near pad)) and (pcb substrate)) not ((361/785 and plug) and (chip IC (semiconductor near (package device element)))) and ((blade lead) with ((bend bending) near portion))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:39
-	1085	((pga (pin near grid near array)) and pad) and (pcb substrate)	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:56
-	4	((pga (pin near grid near array)) and pad) and (pcb substrate)) and ((blade lead) with ((bend bending) near portion))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:39
-	4	((pga (pin near grid near array)) and pad) and (pcb substrate)) and ((blade lead pin plug) with ((bend bending) near portion))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:40

-	316	(((((pga (pin near grid near array)) and ((bond bonding) near pad)) and (pcb substrate)) not ((361/785 and plug) and (chip IC (semiconductor near (package device element)))))) and (semiconductor near1 (device package))	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:55
-	316	(((((pga (pin near grid near array)) and ((bond bonding) near pad)) and (pcb substrate)) not ((361/785 and plug) and (chip IC (semiconductor near (package device element)))))) and (semiconductor near1 (device package))) and (pcb substrate)	USPAT; US-PGPUB; EPO; JPO	2001/07/17 09:58
-	5	"5745346"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/11 13:26
-	3	5745346.URPN.	USPAT	2002/11/11 13:28
-	16	("4164003"   "4314225"   "4340266"   "4437718"   "4832612"   "5018005"   "5163837"   "5413489"   "5479110"   "5531329"   "5742484"   "5745346"   "5864470"   "5969259"   "6093576"   "6225692").PN.	USPAT	2002/11/11 13:28
-	10045	((wiring near board) (printed adj circuit adj board) pcb) with (aperture opening)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 14:39
-	18	(US-6175159-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6262477-\$ or US-6229207-\$ or US-5144412-\$ or US-4965227-\$ or US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5531329-\$ or US-5413489-\$ or US-5163837-\$ or US-4437718-\$ or US-4832612-\$ or US-4340266-\$).did.	USPAT	2002/11/12 14:39
-	49975	((wiring ajj board) (printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 14:41
-	0	6394820.URPN.	USPAT	2002/11/12 14:42
-	73	("2578288"   "2951817"   "3229756"   "3728509"   "3760342"   "3870385"   "3971610"   "4295699"   "4514784"   "4550959"   "4655524"   "4668957"   "4678250"   "4729166"   "4754546"   "4862076"   "4923739"   "5074799"   "5123849"   "5127837"   "5129833"   "5137462"   "5140405"   "5155661"   "5163837"   "5286218"   "5313099"   "5318456"   "5340318"   "5377900"   "5387861"   "5389819"   "5397240"   "5397245"   "5397919"   "5418471"   "5432679"   "5445526"   "5468158"   "5473510"   "5477160"   "5528462"   "5548223"   "5566052"   "5636996"   "5662163"   "5667870"   "5691041"   "5699227"   "5710459"   "5712768"   "5730620"   "5735698"   "5741141"   "5742481"   "5745346"   "5766022"   "5770891"   "5783461"   "5793618"   "5805424"   "5810607"   "5819406"   "5829988"   "5833471"   "5859538"   "5876219"   "5879172"   "5892245"   "5893765"   "5896037"   "5923176"   "5982635").PN.	USPAT	2002/11/12 14:43
-	12	5982635.URPN.	USPAT	2002/11/12 14:44

-	19	("Re31929"   "3846734"   "3875478"   "4356532"   "4494172"   "4519658"   "4626958"   "4636918"   "4779164"   "4882656"   "4912401"   "5061989"   "5168432"   "5205741"   "5310574"   "5445526"   "5460531"   "5481435"   "5585671").PN.	USPAT	2002/11/12 14:46
-	6000	(pga bga ((pin ball) adj grid adj array)) and pad	USPAT; US-PGPUB; EPO; JPO	2002/11/12 14:59
-	806	((wiring ajj board)(printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:00
-	265	((wiring ajj board)(printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and alignment	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:23
-	7	5129833.URPN.	USPAT	2002/11/12 15:05
-	5	5531329.URPN.	USPAT	2002/11/12 15:09
-	12	("3652974"   "4556145"   "4718548"   "4765471"   "4767984"   "4881639"   "5026303"   "5066245"   "5080228"   "5263583"   "5291994"   "5375710").PN.	USPAT	2002/11/12 15:10
-	13	5413489.URPN.	USPAT	2002/11/12 15:12
-	258	((wiring ajj board)(printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and alignment) not (("2578288"   "2951817"   "3229756"   "3728509"   "3760342"   "3870385"   "3971610"   "4295699"   "4514784"   "4550959"   "4655524"   "4668957"   "4678250"   "4729166"   "4754546"   "4862076"   "4923739"   "5074799"   "5123849"   "5127837"   "5129833"   "5137462"   "5140405"   "5155661"   "5163837"   "5286218"   "5313099"   "5318456"   "5340318"   "5377900"   "5387861"   "5389819"   "5397240"   "5397245"   "5397919"   "5418471"   "5432679"   "5445526"   "5468158"   "5473510"   "5477160"   "5528462"   "5548223"   "5566052"   "5636996"   "5662163"   "5667870"   "5691041"   "5699227"   "5710459"   "5712768"   "5730620"   "5735698"   "5741141"   "5742481"   "5745346"   "5766022"   "5770891"   "5783461"   "5793618"   "5805424"   "5810607"   "5819406"   "5829988"   "5833471"   "5859538"   "5876219"   "5879172"   "5892245"   "5893765"   "5896037"   "5923176"   "5982635").PN.) not (("Re31929"   "3846734"   "3875478"   "4356532"   "4494172"   "4519658"   "4626958"   "4636918"   "4779164"   "4882656"   "4912401"   "5061989"   "5168432"   "5205741"   "5310574"   "5445526"   "5460531"   "5481435"   "5585671").PN.) not ("3652974"   "4556145"   "4718548"   "4765471"   "4767984"   "4881639"   "5026303"   "5066245"   "5080228"   "5263583"   "5291994"   "5375710").PN.) not 5413489.URPN.	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:14

-	256	(((((wiring ajj board)(printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and alignment) not ("2578288"   "2951817"   "3229756"   "3728509"   "3760342"   "3870385"   "3971610"   "4295699"   "4514784"   "4550959"   "4655524"   "4668957"   "4678250"   "4729166"   "4754546"   "4862076"   "4923739"   "5074799"   "5123849"   "5127837"   "5129833"   "5137462"   "5140405"   "5155661"   "5163837"   "5286218"   "5313099"   "5318456"   "5340318"   "5377900"   "5387861"   "5389819"   "5397240"   "5397245"   "5397919"   "5418471"   "5432679"   "5445526"   "5468158"   "5473510"   "5477160"   "5528462"   "5548223"   "5566052"   "5636996"   "5662163"   "5667870"   "5691041"   "5699227"   "5710459"   "5712768"   "5730620"   "5735698"   "5741141"   "5742481"   "5745346"   "5766022"   "5770891"   "5783461"   "5793618"   "5805424"   "5810607"   "5819406"   "5829988"   "5833471"   "5859538"   "5876219"   "5879172"   "5892245"   "5893765"   "5896037"   "5923176"   "5982635").PN.) not ("Re31929"   "3846734"   "3875478"   "4356532"   "4494172"   "4519658"   "4626958"   "4636918"   "4779164"   "4882656"   "4912401"   "5061989"   "5168432"   "5205741"   "5310574"   "5445526"   "5460531"   "5481435"   "5585671").PN.) not ("3652974"   "4556145"   "4718548"   "4765471"   "4767984"   "4881639"   "5026303"   "5066245"   "5080228"   "5263583"   "5291994"   "5375710").PN.) not 5413489.URPN.) not ((US-6175159-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6262477-\$ or US-6229207-\$ or US-5144412-\$ or US-4965227-\$ or US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5531329-\$ or US-5413489-\$ or US-5163837-\$ or US-4437718-\$ or US-4832612-\$ or US-4340266-\$).did.)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:14
-	9	(((((wiring ajj board)(printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((pga bga ((pin ball) adj grid adj array)) and pad)) and (alignment near pad)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:30
-	2	6114769.URPN.	USPAT	2002/11/12 15:25
-	13	("5468999"   "5551627"   "5691041"   "5796590"   "5838069"   "5844316"   "5859474"   "5861678"   "5869904"   "5883438"   "5892288"   "5921462"   "5930889").PN.	USPAT USPAT	2002/11/12 15:25
-	3	((((wiring ajj board)(printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and (alignment near3 pad near3 ring)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:34
-	2	((((wiring ajj board)(printed adj circuit adj board) (chip adj carrier) pcb) with (aperture opening)) and ((alignment near pad) near3 ring)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:32
-	0	((pga bga ((pin ball) adj grid adj array)) and pad) and (alignment with pad with ring)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:37

-	14	alignment near3 pad near3 ring	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:35
-	136	alignment with pad with ring	USPAT; US-PGPUB; EPO; JPO	2002/11/14 08:34
-	29	(alignment with pad with ring) and semiconductor	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:38
-	27	((alignment with pad with ring) and semiconductor) not (alignment near3 pad near3 ring)	USPAT; US-PGPUB; EPO; JPO	2002/11/12 15:38
-	2	"6354844"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:09
-	56	"5473510"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:09
-	57	"6354844" "5473510"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:35
-	8	("5364286"   "5413489"   "5713744"   "5772451"   "5791914"   "5802699"   "5805419"   "5833471").PN.	USPAT	2002/11/13 07:10
-	6	("5288236"   "5448449"   "5473510"   "5542468"   "5713744"   "5870288").PN.	USPAT	2002/11/13 07:15
-	0	6370770.URPN.	USPAT	2002/11/13 07:16
-	3	("5815426"   "6114757"   "6175517").PN.	USPAT	2002/11/13 07:16
-	0	6312266.URPN.	USPAT	2002/11/13 07:19
-	3	6074219.URPN.	USPAT	2002/11/13 07:25
-	4	("5152694"   "5388998"   "5473510"   "5791914").PN.	USPAT	2002/11/13 07:25
-	4	5833472.URPN.	USPAT	2002/11/13 07:28
-	14	("4063791"   "4422703"   "4461524"   "4597617"   "4832612"   "5123850"   "5241453"   "5355283"   "5357672"   "5376010"   "5400220"   "5400904"   "5419710"   "5473510").PN.	USPAT	2002/11/13 07:29
-	2	"5962922"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:43
-	4	"6162997"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:44
-	27	"5783865"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:44
-	5	"6148900"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:47
-	36	"5962922" "6162997" "5783865" "6148900"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 07:47
-	11	6294837.URPN.	USPAT	2002/11/13 07:50

-	45	("5046239"   "5063177"   "5172050"   "5229647"   "5236551"   "5249450"   "5404044"   "5420520"   "5426072"   "5483741"   "5487999"   "5528080"   "5541525"   "5557844"   "5578526"   "5592736"   "5607818"   "5633122"   "5634267"   "5674785"   "5686317"   "5716218"   "5781022"   "5783461"   "5783865"   "5796590"   "5801452"   "5815000"   "5834945"   "5869974"   "5876580"   "5878485"   "5896036"   "5915977"   "5929647"   "5931685"   "5936847"   "5952840"   "5962921"   "6013948"   "6040702"   "6107109"   "6107119"   "6114240"   "6162997").PN.	USPAT	2002/11/13 07:52
-	2	6162997.URPN.	USPAT	2002/11/13 07:53
-	13	("4202007"   "4598167"   "4912603"   "4927983"   "5001605"   "5097593"   "5264325"   "5424492"   "5439766"   "5451721"   "5477933"   "5487218"   "5490040").PN.	USPAT USPAT	2002/11/13 07:53
-	13	("4202007"   "4598167"   "4912603"   "4927983"   "5001605"   "5097593"   "5264325"   "5424492"   "5439766"   "5451721"   "5477933"   "5487218"   "5490040").PN.	USPAT	2002/11/13 07:58
-	2	6148900.URPN.	USPAT	2002/11/13 07:59
-	15	("4412642"   "4830264"   "4878611"   "4914814"   "5060844"   "5071359"   "5174766"   "5340947"   "5388327"   "5456004"   "5509203"   "5512786"   "5531021"   "5624268"   "5656798").PN.	USPAT USPAT	2002/11/13 07:59
-	10	5656798.URPN.	USPAT	2002/11/13 08:00
-	12	"5656798"	USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT	2002/11/14 07:29
-	11	("3133773"   "3268652"   "3524960"   "3880486"   "3964813"   "4319121"   "4347552"   "4644643"   "4877176"   "5083928"   "5147227").PN.	USPAT	2002/11/14 07:30
-	12	("4861944"   "5129142"   "5291062"   "5326937"   "5367435"   "5435480"   "5656798"   "5764485"   "5879787"   "5973396"   "6037044"   "6100475").PN.	USPAT	2002/11/14 07:34
-	3	6100475.URPN.	USPAT	2002/11/14 07:37
-	3	("4830264"   "5275330"   "5337219").PN.	USPAT	2002/11/14 07:37
-	9	5337219.URPN.	USPAT	2002/11/14 07:38
-	9	5337219.URPN.	USPAT	2002/11/14 07:42
-	13	("4338621"   "4342069"   "4513355"   "4691225"   "4727410"   "4803546"   "4862231"   "5041899"   "5089881"   "5097318"   "5126818"   "5128831"   "5191511").PN.	USPAT USPAT	2002/11/14 07:46
-	42	5191511.URPN.	USPAT	2002/11/14 07:48
-	7	("3495023"   "3502786"   "3504096"   "3872583"   "4004195"   "4195193"   "4285002").PN.	USPAT USPAT	2002/11/14 07:55
-	46	4338621.URPN.	USPAT	2002/11/14 07:55
-	12	("4021838"   "4074342"   "4338621"   "4561006"   "4823234"   "4866841"   "4893174"   "4953060"   "5006922"   "5016087"   "5025347"   "5266912").PN.	USPAT USPAT	2002/11/14 07:58
-	20	4866841.URPN.	USPAT	2002/11/14 07:59
-	6	("4393581"   "4461529"   "4513355"   "4618739"   "4677526"   "4823234").PN.	USPAT USPAT	2002/11/14 08:00
-	7	("3495023"   "3502786"   "3504096"   "3872583"   "4004195"   "4195193"   "4285002").PN.	USPAT	2002/11/14 08:04

-	13	("4338621"   "4342069"   "4513355"   "4691225"   "4727410"   "4803546"   "4862231"   "5041899"   "5089881"   "5097318"   "5126818"   "5128831"   "5191511").PN.	USPAT	2002/11/14 08:04
-	12	("4861944"   "5129142"   "5291062"   "5326937"   "5367435"   "5435480"   "5656798"   "5764485"   "5879787"   "5973396"   "6037044"   "6100475").PN.	USPAT	2002/11/14 08:05
-	0	6259039.URPN.	USPAT	2002/11/14 08:07
-	10	("5006922"   "5497545"   "5535101"   "5539186"   "5656798"   "5669783"   "5890284"   "6002172"   "6037044"   "6080936").PN.	USPAT	2002/11/14 08:07
-	136	alignment with pad with ring	USPAT; US-PGPUB; EPO; JPO	2002/11/14 08:34
-	136	alignment with pad with ring	USPAT; US-PGPUB; EPO; JPO	2002/11/14 08:34
-	163	(alignment aligning) with pad with ring	USPAT; US-PGPUB; EPO; JPO	2002/11/14 08:35
-	67	((alignment aligning) with pad with ring) and (chip die wafer semiconductor)	USPAT; US-PGPUB; EPO; JPO	2002/11/14 08:36
-	1	6187652.URPN.	USPAT	2002/11/14 08:40
-	20	("3755890"   "4258468"   "4668088"   "4714516"   "4764485"   "4894115"   "4916809"   "5022960"   "5255431"   "5263243"   "5347712"   "5355283"   "5379515"   "5478700"   "5566448"   "5584956"   "5657537"   "5703400"   "5745984"   "5880010").PN.	USPAT	2002/11/14 08:40
-	18	5558271.URPN.	USPAT	2002/11/14 08:49
-	4	("3778530"   "4605153"   "4851966"   "5196726").PN.	USPAT	2002/11/14 08:51
-	8	"5796160"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:13
-	4	"5923535"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:16
-	12	"5796160" "5923535"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:16
-	2	5923535.URPN.	USPAT	2002/11/16 15:17
-	7	("5045921"   "5051811"   "5203075"   "5435732"   "5519936"   "5773884"   "5796170").PN.	USPAT	2002/11/16 15:17
-	31	5435732.URPN.	USPAT	2002/11/16 15:20
-	9	5479703.URPN.	USPAT	2002/11/16 15:23
-	3	6199273.URPN.	USPAT	2002/11/16 15:24
-	17	("4412642"   "5060844"   "5147084"   "5275330"   "5293072"   "5402776"   "5450290"   "5459287"   "5479703"   "5504227"   "5571593"   "5615477"   "5637920"   "5699612"   "5764485"   "5787580"   "5796559").PN.	USPAT	2002/11/16 15:24
-	7	("5045921"   "5051811"   "5203075"   "5435732"   "5519936"   "5773884"   "5796170").PN.	USPAT	2002/11/16 15:27



-	25	("3662230"   "3775844"   "3953924"   "4249302"   "4251852"   "4316320"   "4343083"   "4549200"   "4700473"   "4744008"   "4788767"   "4818728"   "4827376"   "4891014"   "4935584"   "4965700"   "5003429"   "5023202"   "5045921"   "5093761"   "5099393"   "5168430"   "5203075"   "5261155"   "5278724").PN.	USPAT	2002/11/16 15:27
-	71	(US-6175159-\$ or US-5982635-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6208515-\$ or US-6262477-\$ or US-6229207-\$ or US-6148900-\$ or US-5291062-\$ or US-5144412-\$ or US-5006922-\$ or US-4965227-\$ or US-4866841-\$ or US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5531329-\$ or US-5413489-\$ or US-5163837-\$ or US-4832612-\$ or US-4437718-\$ or US-4340266-\$ or US-5819406-\$ or US-5810607-\$).did. or (US-5742481-\$ or US-5730620-\$ or US-5473510-\$ or US-5397919-\$ or US-5129833-\$ or US-5460531-\$ or US-5168432-\$ or US-4765471-\$ or US-6354844-\$ or US-6400034-\$ or US-6114769-\$ or US-5930889-\$ or US-5796590-\$ or US-5892288-\$ or US-6370770-\$ or US-6312266-\$ or US-6304450-\$ or US-6264476-\$ or US-6074219-\$ or US-5833472-\$ or US-5713744-\$ or US-6300578-\$ or US-6294837-\$ or US-6162997-\$ or US-5962922-\$ or US-5783865-\$ or US-5656798-\$).did. or (US-4914814-\$ or US-6444924-\$ or US-6229101-\$ or US-6259039-\$ or US-6100475-\$ or US-5191511-\$ or US-4338621-\$ or US-5485039-\$ or US-4987478-\$ or US-6187652-\$ or US-5558271-\$ or US-5435732-\$ or US-5923535-\$ or US-5479703-\$ or US-6199273-\$ or US-5275330-\$ or US-5060844-\$).did. or (US-20020043980-\$).did.	USPAT; US-PGPUB	2002/11/16 15:29



-	60	((US-6175159-\$ or US-5982635-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6208515-\$ or US-6262477-\$ or US-6229207-\$ or US-6148900-\$ or US-5291062-\$ or US-5144412-\$ or US-5006922-\$ or US-4965227-\$ or US-4866841-\$ or US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5531329-\$ or US-5413489-\$ or US-5163837-\$ or US-4832612-\$ or US-4437718-\$ or US-4340266-\$ or US-5819406-\$ or US-5810607-\$).did. or (US-5742481-\$ or US-5730620-\$ or US-5473510-\$ or US-5397919-\$ or US-5129833-\$ or US-5460531-\$ or US-5168432-\$ or US-4765471-\$ or US-6354844-\$ or US-6400034-\$ or US-6114769-\$ or US-5930889-\$ or US-5796590-\$ or US-5892288-\$ or US-6370770-\$ or US-6312266-\$ or US-6304450-\$ or US-6264476-\$ or US-6074219-\$ or US-5833472-\$ or US-5713744-\$ or US-6300578-\$ or US-6294837-\$ or US-6162997-\$ or US-5962922-\$ or US-5783865-\$ or US-5656798-\$).did. or (US-4914814-\$ or US-6444924-\$ or US-6229101-\$ or US-6259039-\$ or US-6100475-\$ or US-5191511-\$ or US-4338621-\$ or US-5485039-\$ or US-4987478-\$ or US-6187652-\$ or US-5558271-\$ or US-5435732-\$ or US-5923535-\$ or US-5479703-\$ or US-6199273-\$ or US-5275330-\$ or US-5060844-\$).did. or (US-20020043980-\$).did.) and pin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:47
-	0	6229101.URPN.	USPAT	2002/11/16 15:34
-	5	("4877176"   "5035656"   "5135403"   "5656798"   "6011222").PN.	USPAT	2002/11/16 15:34
-	8	5373110.URPN.	USPAT	2002/11/16 15:43
-	2	6049039.URPN.	USPAT	2002/11/16 15:43
-	1	"5373110".PN.	USPAT	2002/11/16 15:44
-	20	4866841.URPN.	USPAT	2002/11/16 15:46
-	1177	257/697	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:47
-	653	257/697 and hole	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:48
-	73	257/697 and (pad near3 hole)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:48

-	71	(257/697 and (pad near3 hole)) not ((US-6175159-\$ or US-5982635-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6208515-\$ or US-6262477-\$ or US-6229207-\$ or US-6148900-\$ or US-5291062-\$ or US-5144412-\$ or US-5006922-\$ or US-4965227-\$ or US-4866841-\$ or US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5531329-\$ or US-5413489-\$ or US-5163837-\$ or US-4832612-\$ or US-4437718-\$ or US-4340266-\$ or US-5819406-\$ or US-5810607-\$).did. or (US-5742481-\$ or US-5730620-\$ or US-5473510-\$ or US-5397919-\$ or US-5129833-\$ or US-5460531-\$ or US-5168432-\$ or US-4765471-\$ or US-6354844-\$ or US-6400034-\$ or US-6114769-\$ or US-5930889-\$ or US-5796590-\$ or US-5892288-\$ or US-6370770-\$ or US-6312266-\$ or US-6304450-\$ or US-6264476-\$ or US-6074219-\$ or US-5833472-\$ or US-5713744-\$ or US-6300578-\$ or US-6294837-\$ or US-6162997-\$ or US-5962922-\$ or US-5783865-\$ or US-5656798-\$).did. or (US-4914814-\$ or US-6444924-\$ or US-6229101-\$ or US-6259039-\$ or US-6100475-\$ or US-5191511-\$ or US-4338621-\$ or US-5485039-\$ or US-4987478-\$ or US-6187652-\$ or US-5558271-\$ or US-5435732-\$ or US-5923535-\$ or US-5479703-\$ or US-6199273-\$ or US-5275330-\$ or US-5060844-\$).did. or (US-20020043980-\$).did.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/16 15:48
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-	72	(US-6400034-\$ or US-6114769-\$ or US-5930889-\$ or US-5796590-\$ or US-5892288-\$ or US-6175159-\$ or US-5982635-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6370770-\$ or US-6312266-\$ or US-6304450-\$ or US-6264476-\$ or US-6208515-\$ or US-6262477-\$ or US-6229207-\$ or US-6148900-\$ or US-6074219-\$ or US-5833472-\$ or US-5291062-\$ or US-5144412-\$ or US-5006922-\$ or US-4866841-\$ or US-4965227-\$).did. or (US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5413489-\$ or US-5163837-\$ or US-5531329-\$ or US-5819406-\$ or US-5810607-\$ or US-5742481-\$ or US-5730620-\$ or US-5473510-\$ or US-5397919-\$ or US-5129833-\$ or US-5168432-\$ or US-5460531-\$ or US-5713744-\$ or US-4340266-\$ or US-4437718-\$ or US-4832612-\$ or US-6300578-\$ or US-4765471-\$ or US-6294837-\$ or US-6354844-\$ or US-6162997-\$ or US-5962922-\$ or US-5783865-\$ or US-5656798-\$).did. or (US-5060844-\$ or US-4914814-\$ or US-6444924-\$ or US-6259039-\$ or US-6229101-\$ or US-6100475-\$ or US-5275330-\$ or US-5191511-\$ or US-4338621-\$ or US-5485039-\$ or US-4987478-\$ or US-6187652-\$ or US-5558271-\$ or US-5923535-\$ or US-5435732-\$ or US-5479703-\$ or US-6199273-\$ or US-6049039-\$).did. or (US-20020043980-\$).did.	USPAT; US-PGPUB	2003/01/26 13:39
-	33	"5508556"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 14:06
-	34	"5708567"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 14:06
-	4	"5930547"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 14:06
-	13	"5730620"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 14:06
-	24	"5475264"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 14:06

-	178	((US-6400034-\$ or US-6114769-\$ or US-5930889-\$ or US-5796590-\$ or US-5892288-\$ or US-6175159-\$ or US-5982635-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6370770-\$ or US-6312266-\$ or US-6304450-\$ or US-6264476-\$ or US-6208515-\$ or US-6262477-\$ or US-6229207-\$ or US-6148900-\$ or US-6074219-\$ or US-5833472-\$ or US-5291062-\$ or US-5144412-\$ or US-5006922-\$ or US-4866841-\$ or US-4965227-\$).did. or (US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5413489-\$ or US-5163837-\$ or US-5531329-\$ or US-5819406-\$ or US-5810607-\$ or US-5742481-\$ or US-5730620-\$ or US-5473510-\$ or US-5397919-\$ or US-5129833-\$ or US-5168432-\$ or US-5460531-\$ or US-5713744-\$ or US-4340266-\$ or US-4437718-\$ or US-4832612-\$ or US-6300578-\$ or US-4765471-\$ or US-6294837-\$ or US-6354844-\$ or US-6162997-\$ or US-5962922-\$ or US-5783865-\$ or US-5656798-\$).did. or (US-5060844-\$ or US-4914814-\$ or US-6444924-\$ or US-6259039-\$ or US-6229101-\$ or US-6100475-\$ or US-5275330-\$ or US-5191511-\$ or US-4338621-\$ or US-5485039-\$ or US-4987478-\$ or US-6187652-\$ or US-5558271-\$ or US-5923535-\$ or US-5435732-\$ or US-5479703-\$ or US-6199273-\$ or US-6049039-\$).did. or (US-20020043980-\$).did.) "5508556" "5708567" "5930547" "5730620" "5475264"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 14:06
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-	92	(( (US-6400034-\$ or US-6114769-\$ or US-5930889-\$ or US-5796590-\$ or US-5892288-\$ or US-6175159-\$ or US-5982635-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6370770-\$ or US-6312266-\$ or US-6304450-\$ or US-6264476-\$ or US-6208515-\$ or US-6262477-\$ or US-6229207-\$ or US-6148900-\$ or US-6074219-\$ or US-5833472-\$ or US-5291062-\$ or US-5144412-\$ or US-5006922-\$ or US-4866841-\$ or US-4965227-\$).did. or (US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5413489-\$ or US-5163837-\$ or US-5531329-\$ or US-5819406-\$ or US-5810607-\$ or US-5742481-\$ or US-5730620-\$ or US-5473510-\$ or US-5397919-\$ or US-5129833-\$ or US-5168432-\$ or US-5460531-\$ or US-5713744-\$ or US-4340266-\$ or US-4437718-\$ or US-4832612-\$ or US-6300578-\$ or US-4765471-\$ or US-6294837-\$ or US-6354844-\$ or US-6162997-\$ or US-5962922-\$ or US-5783865-\$ or US-5656798-\$).did. or (US-5060844-\$ or US-4914814-\$ or US-6444924-\$ or US-6259039-\$ or US-6229101-\$ or US-6100475-\$ or US-5275330-\$ or US-5191511-\$ or US-4338621-\$ or US-5485039-\$ or US-4987478-\$ or US-6187652-\$ or US-5558271-\$ or US-5923535-\$ or US-5435732-\$ or US-5479703-\$ or US-6199273-\$ or US-6049039-\$).did. or (US-20020043980-\$).did.) "5508556" "5708567" "5930547" "5730620" "5475264") and (grounding ground power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:47
-	16	("4164003"   "4314225"   "4340266"   "4437718"   "4832612"   "5018005"   "5163837"   "5413489"   "5479110"   "5531329"   "5742484"   "5745346"   "5864470"   "5969259"   "6093576"   "6225692").PN.	USPAT	2003/01/26 14:08
-	31	5508556.URPN.	USPAT	2003/01/26 14:50
-	0	6448639.URPN.	USPAT	2003/01/26 14:51
-	21	("5220490"   "5410107"   "5508556"   "5801440"   "5818102"   "5841191"   "5864470"   "5866942"   "5894410"   "5903050"   "5982632"   "6034427"   "6037677"   "6057596"   "6104258"   "6137168"   "6198635"   "6214638"   "6268238"   "6274925"   "6278264"   "2001/0008305").PN.	USPAT USPAT USPAT	2003/01/26 14:51 2003/01/26 14:51 2003/01/26 14:51
-	7	6057596.URPN.	USPAT	2003/01/26 14:52
-	5	("4746966"   "5632631"   "5641988"   "5796169"   "5895968").PN.	USPAT	2003/01/26 14:53
-	7	5641988.URPN.	USPAT	2003/01/26 14:54
-	3	6225702.URPN.	USPAT	2003/01/26 14:55
-	14	("5483099"   "5490040"   "5502278"   "5545923"   "5554881"   "5640048"   "5641988"   "5691568"   "5714801"   "5717245"   "5719439"   "5719449"   "5796170"   "5955789").PN.	USPAT USPAT USPAT	2003/01/26 14:55 2003/01/26 14:55 2003/01/26 14:55
-	6	5955789.URPN.	USPAT	2003/01/26 14:56
-	4	("5355283"   "5583378"   "5717245"   "5796170").PN.	USPAT	2003/01/26 14:56
-	4	("5355283"   "5583378"   "5717245"   "5796170").PN.	USPAT	2003/01/26 14:57
-	54	5640048.URPN.	USPAT	2003/01/26 15:01
-	1	6359341.URPN.	USPAT	2003/01/26 15:02

-	3	("5640048"   "5825628"   "6008534").PN.	USPAT	2003/01/26 15:03
-	22	5490040.URPN.	USPAT	2003/01/26 15:10
-	11	("3795845"   "3871014"   "3871015"   "4067104"   "4581680"   "4604644"   "4724472"   "4878611"   "5186383"   "5269453"   "5394009").PN.	USPAT	2003/01/26 15:11
-	7	5483099.URPN.	USPAT	2003/01/26 15:13
-	2	("5173767"   "5220489").PN.	USPAT	2003/01/26 15:15
-	1	6037677.URPN.	USPAT	2003/01/26 15:16
-	11	("4600970"   "5061989"   "5220490"   "5255156"   "5424492"   "5557505"   "5604330"   "5682297"   "5751554"   "5767575"   "5946552").PN.	USPAT	2003/01/26 15:16
-	1	5006922.pn. and (grounding ground power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 16:34
-	9151	(pga (pin adj grid adj array))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:47
-	38	((US-6400034-\$ or US-6114769-\$ or US-5930889-\$ or US-5796590-\$ or US-5892288-\$ or US-6175159-\$ or US-5982635-\$ or US-5953214-\$ or US-5671121-\$ or US-5613033-\$ or US-5373110-\$ or US-6370770-\$ or US-6312266-\$ or US-6304450-\$ or US-6264476-\$ or US-6208515-\$ or US-6262477-\$ or US-6229207-\$ or US-6148900-\$ or US-6074219-\$ or US-5833472-\$ or US-5291062-\$ or US-5144412-\$ or US-5006922-\$ or US-4866841-\$ or US-4965227-\$).did. or (US-6469909-\$ or US-6394820-\$ or US-5745346-\$ or US-5413489-\$ or US-5163837-\$ or US-5531329-\$ or US-5819406-\$ or US-5810607-\$ or US-5742481-\$ or US-5730620-\$ or US-5473510-\$ or US-5397919-\$ or US-5129833-\$ or US-5168432-\$ or US-5460531-\$ or US-5713744-\$ or US-4340266-\$ or US-4437718-\$ or US-4832612-\$ or US-6300578-\$ or US-4765471-\$ or US-6294837-\$ or US-6354844-\$ or US-6162997-\$ or US-5962922-\$ or US-5783865-\$ or US-5656798-\$).did. or (US-5060844-\$ or US-4914814-\$ or US-6444924-\$ or US-6259039-\$ or US-6229101-\$ or US-6100475-\$ or US-5275330-\$ or US-5191511-\$ or US-4338621-\$ or US-5485039-\$ or US-4987478-\$ or US-6187652-\$ or US-5558271-\$ or US-5923535-\$ or US-5435732-\$ or US-5479703-\$ or US-6199273-\$ or US-6049039-\$).did. or (US-20020043980-\$).did.) "5508556" "5708567" "5930547" "5730620" "5475264") and ((ground power) near1 (plane layer ring))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:49
-	560	((pga (pin adj grid adj array))) and ((ground power) near1 (plane layer ring))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:50
-	496	((pga (pin adj grid adj array))) and ((ground power) near1 (plane layer ring))) and (vias (through adj hole))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:51

-	480	(((((pga (pin adj grid adj array)))) and ((ground power) near1 (plane layer ring))) and (vias (through adj hole))) and pin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:52
-	456	(((((pga (pin adj grid adj array)))) and ((ground power) near1 (plane layer ring))) and (vias (through adj hole))) and pin)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:53
-	425	(((((pga (pin adj grid adj array)))) and ((ground power) near1 (plane layer ring))) and (vias (through adj hole))) and pin) and (die chip semiconductor)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:56
-	10195	(base substrate pcb (printed adj circuit adj board)) with (vias (through adj hole)) with pin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:59
-	77	((pga (pin adj grid adj array))) and ((ground power) near1 (plane layer ring))) and ((base substrate pcb (printed adj circuit adj board)) with (vias (through adj hole)) with pin)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 15:59
-	1	6262477.URPN.	USPAT	2003/01/26 16:02
-	41	("2905873"   "4398208"   "4461924"   "4514752"   "4667219"   "4698663"   "4700473"   "4706811"   "4737395"   "4771159"   "4771537"   "4791075"   "4816426"   "4821151"   "4835598"   "4845313"   "4868638"   "4868639"   "4926241"   "4939316"   "4965227"   "4990720"   "5006922"   "5045914"   "5046971"   "5065228"   "5065281"   "5098864"   "5102829"   "5108955"   "5124884"   "5144412"   "5148265"   "5148266"   "5151771"   "5153379"   "5166772"   "5189261"   "5216278"   "5241133"   "5267684").PN.	USPAT USPAT	2003/01/26 16:02 2003/01/26 16:02
-	41	("2905873"   "4398208"   "4461924"   "4514752"   "4667219"   "4698663"   "4700473"   "4706811"   "4737395"   "4771159"   "4771537"   "4791075"   "4816426"   "4821151"   "4835598"   "4845313"   "4868638"   "4868639"   "4926241"   "4939316"   "4965227"   "4990720"   "5006922"   "5045914"   "5046971"   "5065228"   "5065281"   "5098864"   "5102829"   "5108955"   "5124884"   "5144412"   "5148265"   "5148266"   "5151771"   "5153379"   "5166772"   "5189261"   "5216278"   "5241133"   "5267684").PN.	USPAT	2003/01/26 16:06
-	1	5102829.pn. and (grounding ground power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/26 16:34